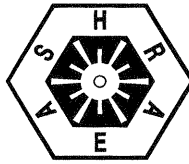


THE BADGERAIRE

AMERICAN SOCIETY OF HEATING, REFRIGERATING, AND AIR CONDITIONING ENGINEERS, INC.

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A PUBLICATION OF THE WISCONSIN CHAPTER OF ASHRAE

Volume Number 2007/8-VII – March, 2008

March 20, 2008 Program: Chilled Water Plant Design

Our March program will cover topics in chilled water design with an emphasis on new chiller technologies. In this meeting we will discuss design-related techniques and procedures we should be following for chilled water plant design. This should be an excellent presentation regarding large system design, with the emphasis on designing for chiller plant optimization.

Our presenter for the evening will be Mr. Hugh Crowther, PE from McQuay International. Hugh is the vice president of product management and technology for McQuay International. He has the task of heading up engineering and product management for McQuay with an emphasis on applied business. Hugh is a recognized leader in our business with over 15 years of experience in large-HVAC-system design. Hugh has also written numerous articles and applications guides related to HVAC design and served on Technical Committees for ASHRAE. Details follow:

Program Date: Thursday, March 20, 2008

Program Location: MSOE Todd Wehr Auditorium (1025 N. Broadway)

Registration Time: 5:00 pm - 5:30 pm

Program Time: 5:30 pm – 6:30 pm

Dinner to Follow

Reserve at www.ashrae-wi.org.

Prices: The program cost is \$20 for non-members. There is no cost for local Wisconsin Chapter ASHRAE members. Checks should be made payable to the "Wisconsin Chapter of ASHRAE."

March Table Top Display: H.O. Trerice Company



From the President's Desk

By David Grassl

Hello everyone and welcome to another edition of the BadgerAire. For those of you that joined us on our UWM power plant tour we had the opportunity to view some uniquely large equipment that produces campus wide heating and cooling for the University. It was definitely some of the largest equipment that I have seen and a great opportunity to see something that is not typically part of our every day work. We thank the staff at UWM for taking time to show us their interesting systems.

On another note, we are drawing close to the end of our ASHRAE year. Because of this, I would like to put any early notice out to our Wisconsin Chapter as we look for assistance in the year to come. We welcome any assistance, whether is it voicing opinions on the Board of Governors to serving as one of our committee chairs. I would encourage new and old members to join our team as another way to become involved in ASHRAE and see the many faces that are involved behind the scenes. We have a treasurer spot opening on our board this coming year and we will also begin planning the Chapter Regional Conference which we will be hosting in 2010. We cannot do these things without your help, so please consider volunteering some time to your local chapter this coming year. If you are interested in helping out in any way, please contact me for further information.

Finally, our meeting schedule is also coming to an end in the near future. After our March meeting on chilled water system design we have two meetings remaining. Our April meeting will be geared toward LEED documentation and how it relates to HVAC. This presentation should be a great insight to what is required from engineers, contractors, etc. when we pursue LEED certification. Then for our final meeting of the year we will tour our very own

LEED Gold Certified building at the Schlitz Audubon Nature Center. The staff should be able to describe how LEED certification was obtained and how it has saved energy since its inception. Please bring all your sustainability questions to our next few presentations. Let's finish the year out on a great note!

Editor's Note

Support and "Feed" Your Industry!

Whether we are "newbies" in the industry or experienced veterans, the HVAC industry has been good to us. It offers us a means of financial support, work that is generally interesting, and much more stability than many industries. And far from being a "dead" industry, ours is alive with challenges including improving the indoor environment while simultaneously decreasing energy usage.

To help ensure that the industry stays healthy, we need to support it with our presence and our service, and for most of us ASHRAE involvement is an excellent way to do so. We hear of athletes and business leaders "giving back" in various ways. One way that HVAC professionals can give back is to support their local ASHRAE chapter.

It seems that we have had a nice up-tick in overall attendance this year, with the past several meetings being at capacity. It seems that business acquaintances and friendships are developing, and that is a good thing. However, many firms are not participating in local chapter activities to any degree. If that description fits your firm, will you consider committing to attending, say, 4-5 meetings a year and bringing along an associate? If you will do that, we can continue the growth that has been occurring and that will be good for our industry!



“science for sustainable environments”

Green Building Performance

The USGBC and the New Buildings Institute have reported on their study of LEED Certified building performance. The report is positive, but identifies key areas for improvement. They conclude, in part, that:

1. LEED buildings deliver better energy performance by 25-30% on average
2. Measured versus design energy use deviation was more than 25% in over half of the projects
3. Neither LEED nor modeling protocols address high process load buildings well.

Modeling accuracy will be critical as we seek continued energy performance improvements. FYI - the full report is available at:

http://www.newbuildings.org/downloads/Energy_Performance_of_LEED_NC_Buildings-Final_2-29-08.pdf

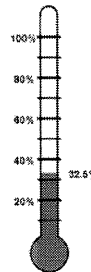
Code-intended Green Building Standard

As you may know, ASHRAE, IESNA and the USGBC have been developing a green building standard – ASHRAE Proposed Standard 189.1 – with code intended language. Per the Press Release, the standard will lead to:

“ . . . site energy savings ranging from 10 to 41 percent over Standard 90.1-2007 . . . also . . . indoor water savings of 35 percent for an office building and 26 percent for a multifamily building.”

This may become the ‘code-minimum building’ that design teams will need to deliver as minimum standard practice. That’s pretty important for all of us. The standard is out for public review, you might want to check it out at: <http://www.ashrae.org/technology/page/331#849>

Best Regards,
 Jude Anders (jaonthe-shoreline@yahoo.com)
 Wisconsin Chapter Research Promotion Chair

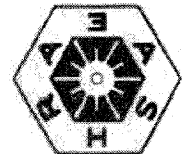


ASHRAE WI Chapter Research Promotion 2007 – 2008 Campaign February Report	
Goal:	\$5,000
Contribution:	\$1,625
Achievement:	32.5%

**Chapter Research Donors
2007-2008 Campaign**

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Table Top Participants Fluid Handling, Inc. (November) Hydro-Flow Products, Inc. (January)

WISCONSIN CHAPTER OF ASHRAE
 P.O. BOX 13643
 WAUWATOSA, WI 53186-0643



Upcoming Meetings-Mark Your Calendars!

MEETING DATE / THEMES	LOCATION	TOPIC	SPEAKER
Thursday, March 20 5 PM	MSOE Todd Wehr	Chiller Plant Design	Hugh Crowther, McQuay
Thursday, April 18 5 PM	TBA	Leed Documentation	TBA
Thursday, May 15, 5 PM	Schlitz Audubon Nature Center	Tour	